HAPPY FIRST DAY OF CLASSES!

MIT's Oldest and Largest Newspaper

tech.mit.edu

Volume 136, Number 1



WEATHER, p. 4

TUE: 46° F | 35° F

WED: 58°F | 45°F Rain

THU: 50°F | 31°F Mostly sunny

Tuesday, February 2, 2016

MIT's design wins SpaceX challenge

Hyperloop pod named 'best overall design,' recognized for its feasibility

Ray Wang and Emma Bingham

STAFF WRITERS

A team of 25 MIT students took the Best Overall Design award in the first stage of SpaceX's Hyperloop Pod competition this weekend. Their design for a pod that will shuttle between San Francisco and LA at prodigious speeds beat those of over 120 teams at the competition's Design Weekend, held at Texas A&M University.

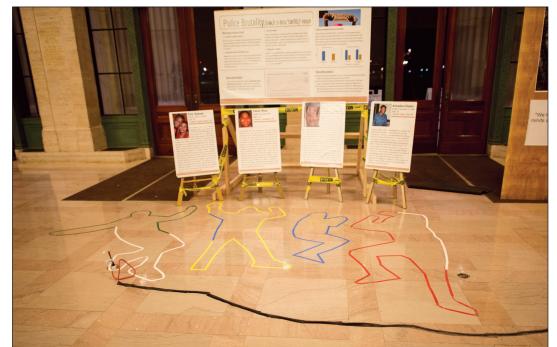
Hyperloop is a high-speed transportation system that connects cities with low-pressure tubes housing pods that ride on an air cushion. It was first conceptualized

by Elon Musk and SpaceX in 2013 and was motivated by what they see as a need for alternative methods of inter-city transportation.

Instead of building the Hyperloop himself, Musk outsourced it. Last June, he announced a competition to solicit designs for the Hyperloop pod, targeted at university students as well as independent groups.

John Mayo G, project manager of the MIT Hyperloop Team, was drawn to the engineering challenge of the Hyperloop pod and its potential. "We're developing some-

Hyperloop, Page 2



LENNY MARTINEZ—THE TECH

Late last night students were working on setting up their installations for the annual MLK exhibit. The exhibit is a part of an IAP course, Martin Luther King, Jr. Design Seminar (17.922). This year's exhibits address topics such as police brutality and lack of diversity at the Academy Awards.

IN SHORT

The Red Cross will be holding a blood drive in La Sala de Puerto Rico Monday, Feb. 8 through Friday, Feb. 12. Appointments are available 1 p.m. to 6 p.m. each day, except Tuesday when they are available 8 a.m. to 1 p.m. Register at http://web.mit.edu/blood-drive/

The European Career Fair will take place Feb. 6, 2016.

The APO book exchange will continue to be open for sales through Friday, Feb. 5 from 10 a.m. to 5 p.m. in W20-307

The It's On Us Informational Fair will be taking place on Wednesday Feb. 3, from 11:30 a.m. to 2:30 p.m. in the Bush Room.

Send news and tips to news@tech.mit.edu.

New 'Sandbox' funds innovation, projects Students from across Institute will be

Students from across Institute will be able to receive up to \$25K for projects

Scott Perry

Students will soon be able to apply for funding from Sandbox, a two million dollar innovation fund announced Jan. 25 by Ian Waitz, Dean of the School of Engineering.

Sandbox will be open to all students, from all departments, and will support projects with up to \$25,000 in funding.

"The primary aim of Sandbox is to develop people, not necessarily startups or products," Waitz told the MIT News Office. "But the learning will be in the context of advancing an entrepreneurial venture or innovative idea — one that serves an important market or social need."

The first recipients of funding were members of StartMIT. In a soft launch of the program, some members have already submitted their proposals to Sandbox. These proposals were evaluated last week, and some have begun to receive funding.

The program will open to the rest of the MIT community sometime in March. To apply for funding from the program, students or teams need only submit an initial proposal outlining their project and what the money will be used for.

The fund will grant initial seed money of \$1,000 and match the student with a mentor to help them with their project. Waitz stresses that the mentorship component of the program is crucial because

it provides students with someone who can help them fully develop their idea, as well as connect them with sponsors interested in their idea.

The program was conceived of almost five years ago, after the engineering department determined that innovations from MIT alumni were among "MIT's greatest contributions to the world." The department then decided to create a fund to invest in students' ideas.

However, according to Waitz, "the initial conception of the program was not as well-suited for students as the department would have liked. The requirement to have students pay back the money was too restrictive and the initial sponsors, which were almost all venture capital firms, did not span the full range of student interests."

To alleviate these problems, the fund removed the requirement for students to pay back the seed money, though students are still encouraged to do so. The fund has also partnered with a more diverse array of sponsors, including individual donors.

Though the program grants money to support student projects, Waitz emphasized that the program was about "developing the students, not the ideas."

To further this goal, the program does not impose many temporal requirements on the students

Sandbox, Page 2

TRICTAL HONSCHEID. THE TECH

TRISTAN HONSCHEID—THE TECH

A SpaceX-themed hack appeared in Lobby 7 Sunday morning commemorating the spaceflight company's recently completed JASON-3 mission.

Amendments may check judicial power

UA Council will consider Wednesday an amendment to the constitution that would allow Council to unilaterally remove a sitting president who fails to maintain a full Judicial Review Board, the board's chair, Olivia Brode-Roger '17, said in a board meeting yesterday.

The amendment would have prevented the presidential impeachment stalemate that took place last spring. In that case, the Judicial Review Board needed to weigh in before Council could consider an impeachment, but the board wasn't able to do so since only two of the board's three seats were filled.

Brode-Roger also discussed several other proposed amendments that would affect the Judicial Review Board, and discussed some of her plans for the

Judicial Board, Page 5

LETTER FROM THE EDITOR

Engagement makes a better community. So share your thoughts with us! **p. 4**

HOW ARE THE CELTICS DOING THIS SEASON?

A breakdown of Boston's spotty performance but stellar coaching. **SPORTS**, p. 12



9 TO 5 IN THE ROLO-DEX ERA

A 1970s tale of friendship and revenge in MTG's latest production.

PHOTO, p. 6

CAN YOU FINISH THIS BELLY WORK-OUT?

Sweat with our latest crosswords. **FUN, p. 9**

SECTIONS

Opinion	. 4
Photo	6
Fun Pages	8.
Coorto	\cap

2 THE TECH
TUESDAY, FEBRUARY 2, 2016

Project manager spent 25 hours a week on pod

Students from four majors helped design the MIT team's winning Hyperloop capsule

Hyperloop, from Page 1

thing that doesn't even exist yet — there's nothing to base it off of," he told *The Tech* in an interview. "We want to work on new technologies that help shape the world for the better ... and Hyperloop is one of those, so of course we were gonna do this competition."

The team, which has 25 graduate students, collects members from aeronautics, mechanical engineering, electrical engineering. The team even recruited several MBA students from Sloan business school. "It's almost like a startup," Mayo said.

Mayo, chief engineer Chris Merian G, and team captain Philippe Kirschen G formed the core leadership of the group. The trio made the driving decisions and came up with ideas that captured what the whole team was thinking. Mayo estimates he spent up to 25 hours a week working on Hyperloop. "Everybody was putting in 15 to 20 hours a week, on top of all their research as graduate students or their classes."

Can you beat this drawing?

Join Illustrators at The Tech!

The MIT squad had four subteams, in addition to business — vehicle dynamics, electronics and software, aerodynamics, and levitation. While the idea for a train in a vacuum tube has been around for a hundred years, the components haven't been combined until now.

"The defining things of our pod are the aerodynamic shell, the frame, the levitation skis, the suspension, the lateral control modules, and the braking modules — along with the electronics and software, which is the nervous system," Mayo said.

The basic science behind the levitation system has been tested, but it hasn't been applied in quite the same way.

"Our levitation skis are a magnet array, which uses the Halbach effect ... The pod is being propelled, and that causes the magnets to move over the track ... and that makes our pod float," said Mayo.

After the initial propulsion, which can be as low as 5 to 10 meters per second, the pod needs no energy to stay afloat. "The actual act of levitation takes no power,"

Hyperloop, Page 3

Fund will accept multiple requests from students

Dean of Engineering hopes fund becomes 'entrenched ... the way UROP or UPOP has'

Sandbox, from Page 1

"so that it can marry well with the way that students develop ideas at MIT, where they don't always have tons of time to devote to the their project," Waitz said.

Though Waitz and Sandbox Executive Director Jinane Abounadi PhD '98 have figured out most of the essentials, there is still much that has not yet been decided. For example,

no limit has been imposed on the number of individual proposals a single student can submit; the program is considering implementing one if funds become short.

Waitz said he will know if the program is successful if students know about it from other students' positive experiences.

In the future, Waitz hopes that Sandbox becomes "entrenched in the Institute's culture much in the way UROP or UPOP has."

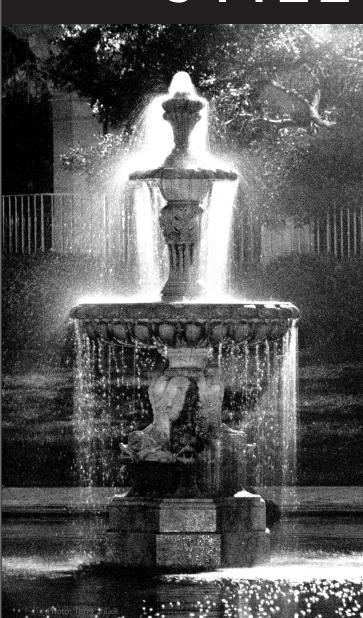


Roadkill Buffet in their IAP show "Improv About P___!"

NINA LUTZ—THE TECH

E-mail join@tech.mit.edu

STILL THIRSTY?



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Russian & Eurasian

Science, Technology, and Society

Theater Arts

Urban Studies & Planning

Women's & Gender Studies

Writing

Tuesday, February 2, 2016

The Tech 3

Fossil Free sit-in breaks after months

The Fossil Free MIT sit-in is no longer continuous, with participants occasionally disbanding if administrators are not present. Sometimes the sit-in may disband if "there are only a couple of people there," Geoffrey Supran, a member of the group, said.

The sit-in, which was originally to be continuous but has since become sporadic, started Oct. 22 in response to the administration's unveiling the Plan for Action on Climate Change.

The Institute's stance, as described in the plan, is that MIT has a better chance to work toward combating climate change "not by distancing [itself] from fossil fuel com-

panies, but by bringing them closer to us."

Fossil Free members noted a surge in student interest and participation in the sit-in following the "Vigil for Climate Action" that the group held in November, with new sitters dropping by each day.

Fossil Free continues to pursue negotiations with MIT administration in their campaign for MIT to divest from fossil fuel companies. Members of FFMIT did not disclose the details of the ongoing, closed-doors discussions as per administration guidelines. They do not yet feel that their terms have been met and will thus continue to protest.

— Vivian Zhong



Paper airplanes are suspended above the W20 stairs on Sunday advertising xFair, hosted by MIT TechX and MIT Tau Beta Pi.

Team struggled with levitation and braking system

Will build prototype that will compete on test track at SpaceX headquarters in CA

Hyperloop, from Page 2

claimed Mayo. For the final competition, which is an actual test of a half-scale prototype, SpaceX will provide a propulsion system that will rocket the pod off at 240 miles per hour.

"We were focusing on innovating in a couple areas here. We wanted to build a system that could scale up to a full hyperloop system, but we also wanted to be sure that it was feasible enough and small enough that we could build this in the spring semester to

test it this summer."

"If it's too complex, it's not buildable in that short amount of time," Mayo said.

With the speeds that the Hyperloop is expected to reach, braking safely is a huge issue that the team had to tackle. "In the actual competition, the track is only a mile long, so we're accelerated 2.4Gs. And if you stay at that speed, your run is about 10 seconds, and you need to stop at a similar 2.4Gs to be able to not hit the end of the tube and crash," said Mayo.

"Another big thing is ... a brak-

ing system that is hydraulic and spring-powered," Mayo said. "It's able to clamp down on the center rail on the SpaceX track and stop us at 2.4 Gs of deceleration. The hydraulic cylinders hold the brakes open, and then springs clamp it shut. If we have any power loss ... it just clamps shut automatically."

So, how did they beat out over 120 other teams, representing 27 states and 20 countries?

Mayo notes that they won Best Overall Design, not Most Innovative. "I think the best thing that stood out about our design is the fact that it is feasible and buildable. One of our main focuses was something we could build and physically test in this competition scope."

They will now begin building a prototype of their pod to be tested this summer on a one-mile track under construction at SpaceX headquarters.

"This week, we're recapping, we're looking at our designs, being sure that all the nuts and bolts fit," said Mayo. "We're gonna start building some parts, getting a lot

parts outsourced and machined ... After that, we will start assembling the pod and testing the individual subsystems — doing things like being sure our brakes apply the correct force, being sure the frame can handle the loads it'll see, building a small model of the levitation system."

Ideally, they'd like to put their pod together by the first week of May, and possibly go out the Hyperloop track in California and test it. Twenty-two other teams that qualified from the design stage will also be testing their prototypes.



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4 THE TECH Tuesday, February 2, 2016



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Letter from the Editor

The Tech printed its first issue in 1881, in the year of the twentieth anniversary of MIT's founding. The founding board of editors set a mission for the fledgling publication, brought into being by "public spirit:" The Tech would provide "an avenue for the expression of public opinion."

Their aim was tied intimately to the mission of universities in general and to MIT in particular. To make discoveries, to create new knowledge, and to share and propagate that knowledge

requires an avenue for the free exchange of ideas which a newspaper is uniquely situated to provide.

In today's issue, the first of the one hundred and thirty-sixth volume, we report on four stories which highlight the thrumming energy of discovery and creation that animates and characterizes MIT, from students working to revolutionize the way we move through space, to new initiatives which reduce the barriers to creation, to questions about self-governance, and stories of

activism that challenge our selfdefinition as a community.

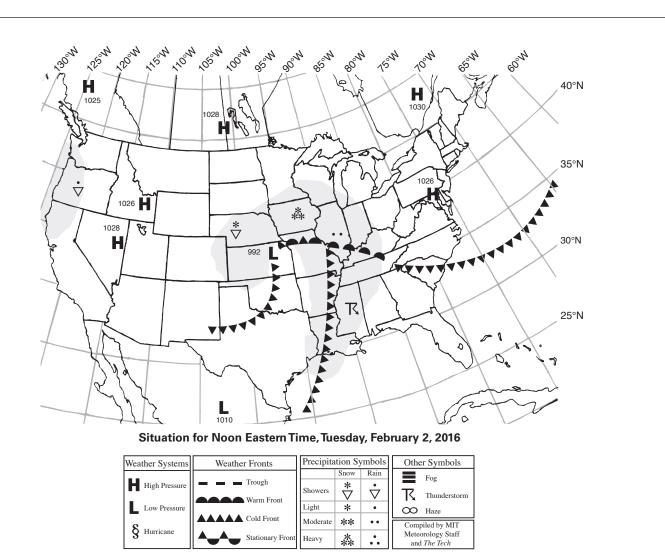
Yet just as important, if not more so, to the founding board of editors, was the newspaper's commitment to the students, their readership. The Tech, they proclaimed, "will exercise a guardian care over the members of the school, protecting the Freshman, curbing the Sophomore, correcting the Junior, and supporting the Senior in his old age.

As a newspaper, our goal is to inform, provoke, and challenge. It is also to ensure, as the board of the first volume put it, that "the efforts we make are steppingstones to further attainments."

As we move forward, I want to revisit our commitment to our readership and ask for your input in shaping the future direction of

The Tech: What should a newspaper, produced by MIT students for the broad MIT community, be doing today?

> Katherine Nazemi Editor in Chief



WEATHER

A May-like start to February

By Vince Agard STAFF METEOROLOGIST

Barely a week after a historic blizzard left much of the northeastern United States buried in snow, spring-like weather has spread along the East Coast. In Boston, where only 6.1" of snow were received in the January 23 storm, temperatures neared record levels at the end of the month. The January 31 high

temperature of 57°F (14°C) at Logan Airport was 5°F shy of the record high of 62°F (17°C) set in 1913. The next day, the temperature reached 65°F (18°C), just 1°F short of the all-time record for February 1. For comparison, the normal high temperature is 36°F for this time of year, and the normal high won't reach 60°F until April 27.

Boston will have another opportunity to break a high

temperature record on Wednesday, as a strong southerly flow brings warm air back to the region ahead of an afternoon cold front. Rain will move into the area, possibly becoming heavy at times as the front passes through tomorrow afternoon. Depending on the timing of the front and the associated rain showers, the temperature may again fall just short of the February 3 record high of 59°F (15°C).

Extended Forecast

Today: Sunny, high 46°F (8°C). Winds NW at 5-10 mph.

Tonight: Becoming cloudy late, low 35°F (2°C). Winds becoming S at 5-10 mph.

Tomorrow: Morning clouds portend afternoon rain showers, 58°F high (14°C). Winds S at 15-20

Thursday: Mostly sunny, highs around 50°F (10°C). Friday: Mostly sunny, highs in the upper 30s °F (4°C).

OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Will Conway, Editor in Chief Leon Lin, Managing Editor Anthony Yu, Executive Editor Kath Xu, and Opinion Editor Claire Lazar.

Dissents are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the author. not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to letters@tech.mit.edu. Hard copy submissions should be addressed to The Tech, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. The Tech reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of *The Tech*, and will not be returned. Letters, columns, and cartoons may also be posted on The Tech's Web site and/or printed or published in any other format or medium now known or later that becomes known. The Tech makes no commitment to publish all the letters received.

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Tuesday, February 2, 2016 ______ The Tech 5



LENNY MARTINEZ—THE TECH

An orchestral tribute concert to David Bowie was held last Friday in Kresge Auditorium. The event was presented by MIT Music and Theater Arts in collaboration with Orange Mountain Music and Richard Guerin. All proceeds went to support the Koch Institute Frontier Research Fund for cancer research at MIT.

Judicial Board, from Page 1

coming year.

She said that another proposed amendment would make it easier for the rest of the UA to override any very unpopular decisions the board might issue: together with the president's approval, the supermajority needed to amend the constitution would be able to do so without the extant restriction that the amendment must "lie on the table for at least one meeting."

Our decisions "are incontestable and must be acted on immediately," she said. "We don't want to lower the bar [for overriding a decision] to below an amendment, [but] we can make it faster."

Brode-Roger also said that a more specific structure for the board has been proposed as an amendment.

She said the proposed structure would allocate the board's three seats to a sophomore, a junior, and a senior. Council would be able to choose each year, by a simple majority vote, to either promote each member to the next seat or remove the member from the board; those serving in the senior position would automatically be

removed, even if they were to continue another year as an undergraduate.

Brode-Roger hopes that the new structure would improve the board's continuity.

These amendments are among those coming out of the UA's Bylaws Committee. That committee, UA Vice President Sophia Liu '17 said, is tasked with reviewing the UA's governing documents.

Besides constitutional amendments, Brode-Roger is also thinking about ways to better publicize the Judicial Review Board.

She plans to make the board more well-known by visiting each undergraduate dormitory during a house meeting and discussing "how the UA is on a constitutional level."

Since the summertime, Brode-Roger has also been looking at better ways for undergraduates to submit complaints to the board. At a meeting last summer, she discussed the possibility of creating an RT Queue to track complaints. Yesterday, she said that she might ask IS&T to provide an instance of the queue so that the UA would not have to maintain the software itself.

— William Navarre

A sampling of people you'll meet during a typical dinner at The Tech:

Lenny, Course 2	Samir, Course 16
Michelle, Course 3	Katherine, Course 17
Jiahao, Course 6	Claire, Course 18
Patricia, Course 8	Jack, Course 19
Vivian, Course 9	Tara, Course 20
Amy, Course 10	Mirny, Course 21
Vince, Course 12	Karleigh, CMS
Fiona, Course 14	Alex, Course 22

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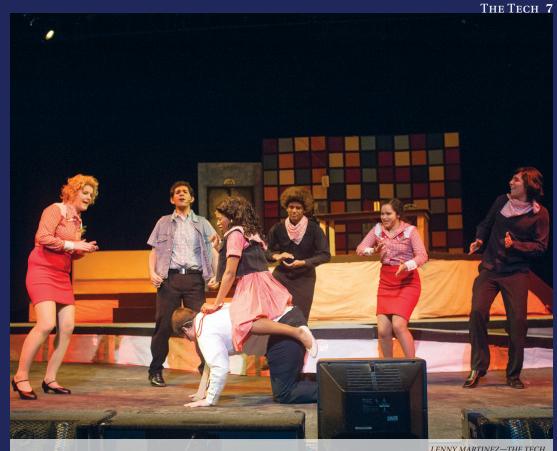


part of R.A.W. (Rinnigade Art Works)





Doralee Rhodes (Chamille J. Lescott '16) confronts her boss Frank Hart (Geoffrey W. Hegg '16) after learning that he's been spreading rumors about a relationship between them.



Doralee Rhodes (Chamille J. Lescott '16) rides on top of Frank Hart (Geoffrey W. Hegg '16) during a dream sequence.



LENNY MARTINEZ—THE TECH

Chamille J. Lescott '16 sings during the opening of "9 to 5".



Noelle A. Colant '17 as Roz Keith during "Heart to Hart".



The ensemble (Kristina S. Kim '17, Jeremy T. Wright '17, Sienna A. Ramos '18, Leigh-Ana Rossitto '19, Amanda J. Liu '17) happily watches as Violet Newstead (Hallie N. Voulgaris '17) prepares a potion to make Frank Hart (Geoffrey W. Hegg '16) disappear during a dream sequence.

MTG Presents

9 to 5



In an unplanned turn of events, Frank Hart (Geoffrey W. Hegg '16) confronts the people that have been controlling his company after kidnapping him.



The musical's heroines: Judy Bernly, Violet Newstead, and Doralee Rhodes (Carrie M. Fowle '18, Hallie N. Voulgaris '17, and Chamille J. Lescott '16 respectively) sing during the finale.



Carrie M. Fowle '18 sings as Judy Bernly during the opening of "9 to 5". At the start of the story, Judy Bernly has been forced to get a job because her husband has run off with his secretary.

Photography by Lenny Martinez

Sudoku

Solution, page 11

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Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 11

72×		 	360×		
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	5		6		1

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Giant Techdoku

Solution, page 11

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Belly Workout by Gail Grabowski

Solution, page 11

ACROSS

1 Peaceful

5 Airplane tracking device

10 Writing tablets

14 Three-layer cookie

15 Girl in Wonderland 16 Brother of Cain

17 Reclined

18 Wandered around

19 Actor's part

20 Declined to vote

22 Film-studio production

23 Pays to play poker

24 Lightest in color

25 Crudely built hut

28 Famous person, for short

29 Big marching-band instruments

30 Fry lightly

32 Liquid for frying

35 Letter before tee

36 Doesn't have

37 Alias letters 38 You-know-_

39 Old West search party

40 Medical remedies

42 React to a joke

44 Chinese bearlike beasts

45 Pirate flag images

47 In separate pieces

49 Result of poor café service

50 Plentiful supply

54 Metallic rocks 55 Statistical diagram

_ or less (approximately)

57 Alternative to suspenders 58 Ward off

59 Wicked

60 Puts into words

61 __ board (manicurist's tool)

62 Small bits of paint

DOWN

1 Coke or Pepsi

2 The typical Jordanian

3 Luau garlands

4 State west of North Dakota

5 Uncommon occurrence

6 Without help 7 Plunges into a pool

8 Scored 100% on 9 Color of Santa's suit

56 Debate participant

57 Well-thought-out

62 Source of quote

64 British pop star

65 Muesli morsel

66 Weak-__ (timid)

68 Three, in Capri

67 Early PC software

59 Miles away

60 Some strings

10 Inmate's early release

11 On the up-and-up

12 Sandwich shops

13 Frozen rain

21 44 Down pests 22 Boy or man

24 Furry or feathered friends

25 Slow-cooker meal

26 "Keep quiet!" 27 "For sure!"

28 Pickle veggie

30 Cummerbund, for

instance

31 Appliances that cool: Abbr.

33 Scandinavian furniture chain

34 Scottish girl

36 Fireplace fillers

39 Solid part of orange juice

40 Joker or jack

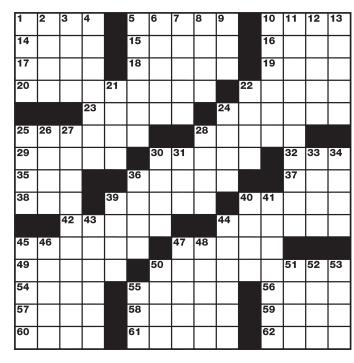
41 Not domesticated 43 Sought-after guest rosters

44 Kitchen closet

45 Snooty people

46 Seoul, South __

47 Subside



48 Less diluted

50 "Excuse me . . 51 __ Scotia, Canada 52 Baby's bed

53 Snakelike swimmers 55 Letters after B

Hot Stuff by Andy Ellis

Solution, page 11

ACROSS

1 Film excerpt

6 A billion years 9 Leafy retreat

14 One in the lead

15 Proclaim

16 Bel __ cheese 17 START OF A QUOTE

19 Chilly quarters

20 Vituperate

21 Marine: Abbr. 22 NL East city

23 Antediluvian

24 GPS determination

25 Rodeo beast

28 PART 2 OF QUOTE 32 Caesarean conquest

33 Site of confusion

34 Crime-fiction pioneer

35 PART 3 OF QUOTE

40 Loudspeakers, for short 43 Chilean cheer

52 Vatican venue

53 "I hate it!" 54 Series ender

44 Bahrain leader

47 END OF QUOTE

69 Deposition aide

DOWN 1 Prefix for "coil"

4 Carl's Cosmos successor

7 Where Interstate H-1 is

8 Dacha denial

10 Motley

11 Baggage handler

2 Publisher's roster

3 Spiny anteater

5 Directional ending

6 Posh property

9 Honey source

12 Granada grizzly 13 Old auto from Olds 18 Knot on a tree

24 Julia ex

25 Dollop

26 Farm sound 27 Sports drink suffix

29 Valentine

misspelling 30 Language source of

"chocolate" 31 Mauna __

36 Hockey area

37 South African golfer 38 Sister of Rachel

39 Source of green eggs

40 Instagram upload 41 Shade of gray

42 Bound, in a way

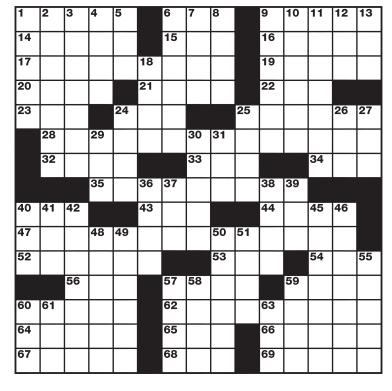
45 Unfrozen, as harbors

46 Gotten back 48 Mythical lyrist

49 Contradicts 50 Significant

51 Omen interpreter 55 Belief, in brief

57 Sticky situation 58 A little open



59 Dad's mom's daughter 60 Web filmer

61 O execs 63 Green-lights

Orange Bowl by Fred Piscop

Solution, page 11

ACROSS

1 Last stop before home 6 Chamber music group

11 Site of Gump heroics 14 Backer of the Bulldogs

15 Oslo native's homeland 16 Shout like "Bravo!"

17 Tarantino comedy crime caper

19 App glitch 20 Addition column

21 "Wait a minute . . ." 22 City near Cremona

24 Mason's tool 26 Wombat cousin

28 Wall-tile descriptor 32 Artist fond of lilies

35 Confront 36 Read Across America Day

37 Eiffel Tower, essentially

38 Uses leverage 40 Make known

41 Unalterable

sponsor

42 Important stretches 43 Far from windy 44 Players getting byes, often 48 Lawbreakers, so to speak

52 Cuban base, familiarly 54 Title given to Poitier

49 Panoramas

55 Go sprawling 57 Response to a bailiff 58 Michael Keaton film of '88

62 Floral welcome

63 Boot out

64 Beverly Hillbillies star 65 Indelible-ink design, for short

66 Melodramatic 67 Crawls (with)

DOWN

1 Keyboard slip 2 Frequented spot 3 Not as hale

4 Unwraps eagerly 5 Telephone trio 6 At the ready

8 Part of TNT 9 Vanity

10 A bit after the hour

7 French fragrance firm

11 Obvious choice

perhaps

13 Prefix for phone 18 "Uh-huh"

23 In-flight stat. 25 Rainy

26 Slapper starter 27 Lofty lines

29 Faulty 30 Pink Panther collectibles

31 Close kin of cabbage 32 Niagara Falls by-product 33 Deep-fried carnival treat

34 Lacking the motivation 38 Attend Eton, e.g.

39 Florida major leaguers 40 Lab glassware

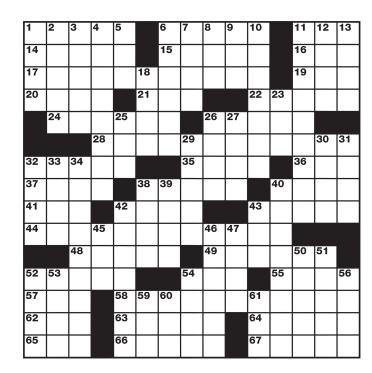
42 Dons judge's garb 43 Manning stats

46 How villains behave 47 Limerick's land

50 Ascend 51 Attack command

45 Sleep study acronym

52 ___-edged (best-quality) 53 Inspiration



60 Clean Water Act 54 Aerobics class prop 56 Highlighters, for instance 59 "Outer" prefix

administrator 61 Airbus product 10 THE TECH Tuesday, February 2, 2016

🔄 Brad Stevens' coaching has been a big reason for the Boston Celtics' success this season

Close games have been a worry for the C's; as the regular season reaches its climax and playoff spots are on the line, the margin of error gets increasingly narrower

Celtics, from Page 12

they just did not have the size to be a good defensive team. Fans have salivated at the prospect of finding that huge center to clog the middle and provide the shot blocking this team has lacked for a long while. Given the individual liabilities one would expect from players like Kelly Olynyk and Isaiah Thomas, this team seemed to be a recipe for defensive disaster. But that has yet to be the case.

Right now, the C's are second in the league in points allowed per 100 possessions, trailing only the Spurs. Crisp rotations and incredible energy fuel a typically small Boston lineup. They work hard, force turnovers, and contest every shot. Jae Crowder, Marcus Smart, and Amir Johnson all have been huge on this end of the court, making fantastic plays every game. There are times when this team has lapses and gets picked apart, but they do a great job communicating and tend to recover quickly. Thomas is heading to his first All-Star game, and while his offensive prowess is what makes him a star, his defense has reached the point of passable (sometimes even good), making him a much more well-rounded player than we have seen in the

REBOUNDING: B-

The Celtics are not a huge team and while this hasn't really hurt them when it comes to forcing misses, they do have a tendency to get beat up on the boards. When the team comes together and collectively rebounds, they do a great job. Marcus Smart very aggressively attacks the ball and Jae Crowder and Evan Turner provide great help on the wings. However, this team sometimes has a tendency to leak out after a shot is put up and this can be costly, giving the other team extra chances they shouldn't be getting. When the energy and effort is there, this team is perfectly fine securing the ball and can even use its speed to get some offensive rebounds of its own. There have been a few games this season that second-chance points have caused a lot of unnecessary strain, but it's usually never a comes to play because they alnagging issue throughout entire

CONSISTENCY: C+

Celtics have lacked consistency up to this point in the season. Some nights they come out and absolutely impress. Other times, they are lackluster and lose to a team they are clearly capable of wiping the floor with. When the shots are not falling from the outside, they don't

seem to have a backup plan. A lot of that makes sense. You do not want to stop playing your brand of basketball, but the Celtics have to find other ways to snap out of these funks if they want their record to reflect the work they have done. It can be maddening to see a flurry of threes fall one night only for it to rain bricks the next, but this happens to every team and it should not always determine the fate of the game. Working the ball down low and consistently attacking the basket will do them well in these games in the second half of the season.

On a brighter note, the energy and effort always seem to be there. Their defense always ways scrap and fight. It's really better decision-making in these situations, not necessarily effort, that would do them some good.

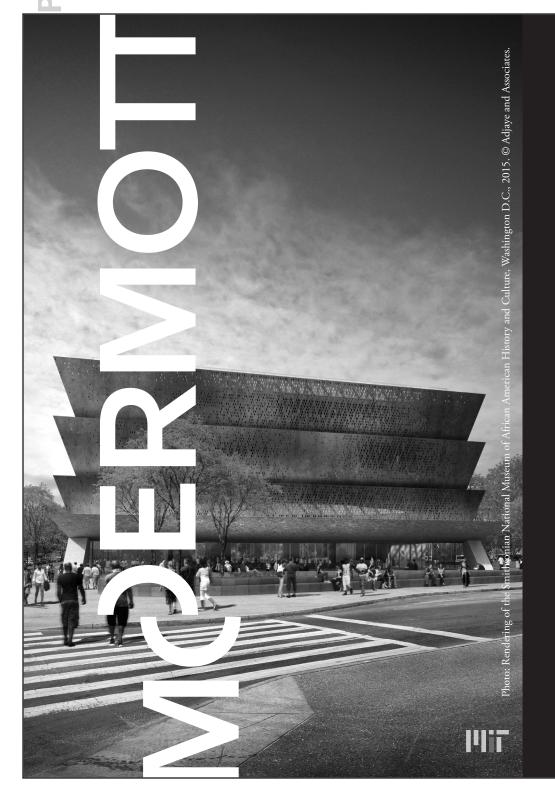
CLOSING: C

Close games have not been kind to the Celtics up to this point. When it comes down to the wire, the team has not been able to pull away or keep up with their opponents. It's not because the energy and effort is not there. It's not that they are not getting great looks. Shots just have not fallen for them. Outside of Isaiah Thomas, the team does not really have anyone to get them good isolation baskets at the end of the game. And as gifted as he is, sometimes your five-foot-nine point guard taking fadeaway mid-range jumpers just is not going to get the job done. To his credit, he hits them at a high enough rate for me to instinctively consider it a good look. When it gets close, the transition baskets and usefulness of rotations diminish, exposing the limitations of this roster. They can hunker down defensively, but that can only

do so much if they are clunking shots on the other end. Brad Stevens has drawn up some terrific plays that have gotten them key, clutch baskets (most recently a game-winning layup by Jae Crowder against the Wizards) so the potential is there. It's on the players to perform better in these intense situations. The coach can draw you up a look, but if you can't hit the shot it's not going to do you any good.

COACHING: A-Brad Stevens has done an excellent job with his team once again. The Celtics have gotten better each season he has been here, and while the improved talent on the roster also contributes to that, he has no doubt gotten a bunch of average players to play collectively at an aboveaverage level. The rotations that have made this team so great defensively are no doubt his doing. They run some great offensive sets after timeouts and at the end of games that have gotten them great looks, even if they do not always fall. The future only seems bright.

OVERALL: B+



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New-look Boston Bruins are looking to make the playoffs after a disappointing 2014-15 season

After major offseason trades, the Bruins' offense has looked impressive this season; the defense still remains a major worry as the B's look to punch their playoff tickets

By Yueyang Ying SPORTS WRITER

At the All-Star break, the Bruins have notched up a solid 57 points, only one point short of second place in their division. Currently, the Boston team owns one of the two Wild Card positions for the Stanley Cup playoffs in the Eastern Conference.

Don Sweeney, the Bruins General Manager who replaced Peter Chiarelli in the aftermath of a disappointing 2014-15 season, paved the way toward improvement.

His ambition outshines that of Chiarelli and he is determined to make changes for the future of the

This season, even though Milan Lucic, Dougie Hamilton, Carl Soderberg, Reilly Smith, and Gregory Campbell are no longer sporting black and gold jerseys, the trades have not been quite as detrimental as originally thought. While the addition of many draft picks and prospects has given the team more potential for the future, the team currently lacks depth in all

Against the Columbus Blue Jackets, typical third line center Ryan Spooner moved up to right wing on first line. The new arrangement had its pros and cons: the line ultimately produced 11 out of 34 shots on net. The team scraped a 3-2 win in a final shootout. However, the third and fourth lines fell short, only generating a disappointing four shots on net. Against a team that currently owns the worst record in the history of the NHL, a 3-2 grind is not something to be proud of.

The rookies and draft picks have so far meshed well with the team, stepping up even as newcomers. Jimmy Hayes, Matt Belesky, and Frank Vatrano have all contributed multiple goals throughout the season and have proven themselves decisive in risky situations.

Nonetheless, the Bruins are far from their 2011 glory. Despite the improving offense, the sharp decline in defense is to blame for the lack of success. Big Z, Zdeno Chara, has visibly slowed - and understandably so, as he is now in his 20th year in the NHL. Dennis Seidenberg's surgery proved harmful as well, limiting the wide skillset he used to possess. Former Sharks player Matt Irwin performed so atrociously that, after two games, he was shipped back to the AHL.

As for the defensive rookies, they have played to the best of their current abilities, but will continue to make rookie mistakes that will only diminish with experience. A playoff appearance is definitely there for the taking, but a run at the Stanley Cup may be asking for too much.

Solution to Belly

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Solution to Orange

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Solution to Hot

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Solution to Giant

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Solution to Sudoku

from page 8

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Solution to Techdoku

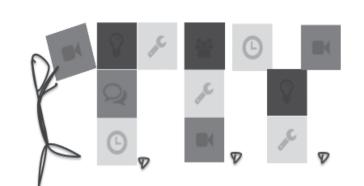
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Today's African Repats

Thurs, Feb 4, 2016

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FEATURING



Moderator: Claude Grunitzky, a serial entrepreneur and MIT Sloan Fellow, is the founder of TRACE, and co-founder and editor-in-chief of TRUE Africa, a new media platform. He was raised between Lomé, Togo; Washington, DC; Paris and



Joelle Itoua-Owona was born and raised in Douala, Cameroon. She moved across France, the UK and Germany for Masters degrees on management and strategy. She completed a MBA at MIT Sloan where she is president of the Africa Business Club.



Devon Maylie spent three years in Johannesburg as a writer for the Wall Street Journal. She covered the region during a period of renewed optimism about Africa's outlook from foreign investors and the diaspora alike.



Gbemi Munis is currently in the Sloan Fellows MBA program at MIT. Prior to Sloan, she worked in the tech industry in US and Nigeria developing technical business solutions for enterprise customers in financial services, oil and gas, and consumer goods industries.



Jacques Jonathan Nyemb is a lawyer and policy advisor. He is currently at the Harvard University Kennedy School where he co-chairs the Africa Caucus. He was formerly attorney-at-law at Cleary Gottlieb Steen & Hamilton LLP, advising on project finance.

Boston Celtics' mid-season review

Despite hot streaks, inconsistency is currently dooming the Celtics

By Zachary Collins SPORTS WRITER

Up to this point, the Celtics have played some pretty good basketball. Currently, they are seeded 5th in the Eastern Conference — a spot worthy enough for a playoff bid — and have even inspired the hope that they will climb a few more spots as they play through the second half of this NBA season. The numbers behind the games seem to indicate this too. Right now, the Celtics are seventh in the league in point differential, behind the six teams who currently have the best six records in the league. Basically, when this team comes to play, they play very well. Unfortunately, there seem to be many nights that the Celtics just do not get the job done.

OFFENSE: B

The Celtics have some capable shooters on their roster. Brad Stevens has done everything he can to get these shooters looks from the outside, and the Celtics are not afraid to let loose. Oftentimes this can demoralize opposing teams, but it can also be

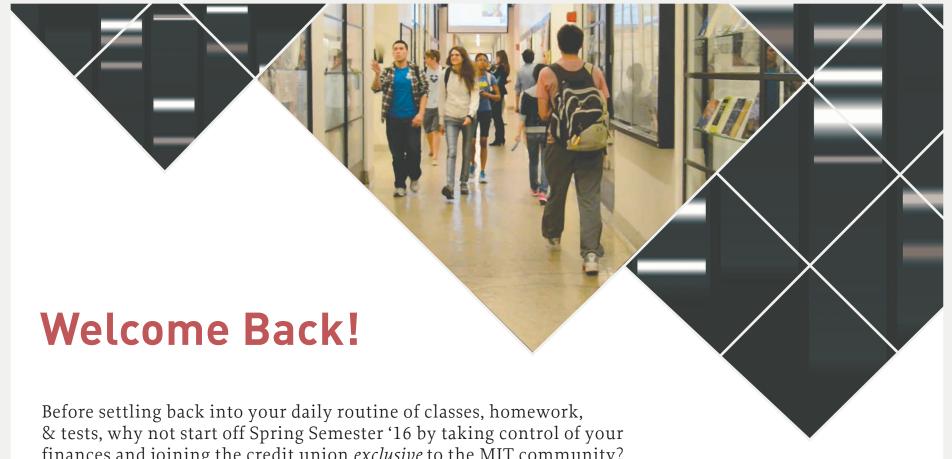
a blessing. The Celtics seem to be at their best when players like Jae Crowder, Isaiah Thomas, and Evan Turner attack the basket. They can drive in and either create looks for themselves, or for their teammates waiting on the wings. Oftentimes these shots do not fall and the Celtics seem content with swinging the ball and taking errant shots from the three point line. This takes them out of their rhythm and kills a lot of the flow that makes this pace and space offense function.

The transition game is really this team's bread and butter. They look to push the ball whenever possible, and the speed of the backcourt coupled with capable shooting from their bigs allows them to find great shots. When things are not going in the halfcourt, this team often makes up for it by escalating the pace, forcing turnovers and propelling the ball up the court.

DEFENSE: A

The one knock on the Celtics coming into the season was that

Celtics, Page 10



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